

Meet your new lab partner.

Introducing Baxter[™] Research Robot – a compelling new addition to the world of corporate and academic research. Just as our flagship robot Baxter is revolutionizing the manufacturing world with a safe, affordable and easy to use automation solution, Baxter Research Robot is revolutionizing how labs of all sizes are able to leverage cutting edge technology to develop their own applications and innovations.



A safe, affordable, robust innovation platform.

Baxter Research Robot leverages the same impressive safety features, ease of use and affordability as the original Baxter robot for manufacturing, while offering several added characteristics that make it an ideal fit for labs. Baxter Research Robot allows research teams to focus on specific application development goals, including human-robot interaction, collaborative robotics, planning, manipulation, control, and perception. Whether your focus is product testing or developing the next big innovation in robotics, Baxter Research Robot is the ideal platform for your success.

Baxter Research Robot provides a safe, affordable and robust platform for innovation. It is specifically designed with the needs of academic labs and corporate research departments in mind:

- Utilizes an open source Software Development Kit (SDK), allowing researchers to build a wide array of custom applications
- Built on a standard ROS framework, giving researchers the ability to share innovations and build on each others' success
- Leverages collaboration tools such the Unified Robot Description Format (URDF) to promote sharing across teams and organizations



Baxter Research Robot – Basic Specifications

Physical

- Robot height: 3'1" without optional pedestal
- Robot height with pedestal:
 5'10" 6'3" (adjustable)
- Arm length to end-effector plate: 41"
 Torso mounting plate diameter: 13.3"
- (for mounting on table) Body weight, without pedestal: 165 lbs
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- Body weight, with pedestal: 306 lbs
- Degrees of freedom: 14 (7 per arm)
 Pedestal footprint: 36"x32"
- Electrical
- Supply voltage: 120 Volts
 Alternating Current
- Rated current: 6 Amps

Environmental

- Protection classification: IP50
- Operating temperature range: 32-104° F (0-40°C)

End Effectors

- Vacuum cup with interchangeable cups
- Electric parallel gripper with interchangeable 'fingers' and user-adjustable 'fingertips'

Workstation Requirements

- (workstation not provided) • Ubuntu 10.04 LTS and ROS Electric,
- with minimum specifications: – Intel i5 or above
- 4GB memory or above
- Min. 2GB of free disk space
- Ethernet port
- BRR_008.09.13



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